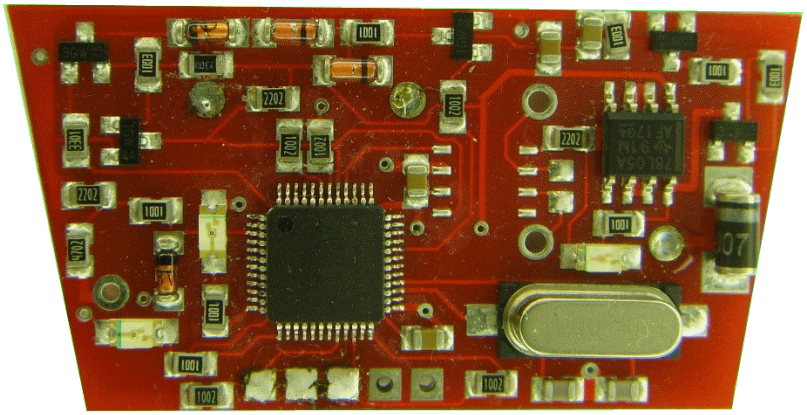
User Manual Happylightshow

Vectra C / Signum

HAPPYLIGHTSHOW.DE



Happylightshow Vectra 116

IbS Industrieberatung Schön

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1.Introduction

The HAPPYLIGHTSHOW is a additional electronical device, that communicates through the on-board CAN-Bus system.
Therefore additional new functions are possible.

The HAPPYLIGHTSHOW is very easy to install, because it‘s only being put on the diagnostic link connector (DLC).

-> No wiring or soldering necessary

2.1 Einbau Vectra C / Signum

mounting place:
diagnostic link connector (DLC) behind the ashtray

procedure:

The Happylightshow will be mounted with the long side downwards(see figure)

2.2 Function Test

Activate the ignition.

If the installation was sucessful the LEDs on the HAPPYLIGHTSHOW will work like this:

Green Led always on
Red Led toggeling every second

→ Installation sucessful, go on with setup procedure

3.Setup Vectra C / Signum

1 Activating Setup
Requirements: Ignition on, Engine off, Lightswitch off and no Clutch pressed.

Procedure:
Push **Brake**, **FlashToPass** and **TurnSwitchLeft** at the same time

Advice:
Best way to do it is: Push Brake and FlashToPass together and then add TurnSwitchLeft.

-> Right Turn Telltale within the Instrument will light up.

2 Adjustments
The Speedometer shows the digit (Right Turn Telltale lights up)
To switch between each digit push **Brake** (0km/h = digit0, 10km/h = digit1)

To change the value of each digit you have to change into the revolution counter
By pushing the **Clutch** (Left Turn Telltale lights up).
Now change the value by pushing the **Brake** pedal (0rpm = 0, 1000rpm = 1, ...).

To change back into the Speedometer use **Clutch** again.

For automatic cars use **Parklightswitch** (on/off) instead of the **Clutch**.

3 Save Adjustments
After setting up the happylightshow with all desired functions, use
TurnSwitchRight once to save the adjusments and go to normal mode.
The red LED on the device will toggle fast

Setup is now finished

4 Meaning

Digit 0: (OPC Scan)
0 = OPC Scan off
1 = OPC Scan on *example:(0km/h – 1000rpm)*

Digit 1: (Speedlock)
0 = Speedlock off
1 = Speedlock 1 on
2 = Speedlock 2 on

Digit 2: (WTTC rear)
0 = no lights
1 = Reverse Light + License Plate
2 = Turnlights + License Plate
3 = Brake Lights
4 = Reverse Light + 3. Brake Light
5 = Turnlights + Reverse Light
6 = Turnlights + Reverse Light + 3. Brake Light + License Plate

Digit 3: (WTTC front)
0 = no lights
1 = Park Light + Fog Lamp
2 = Turn Lights + Repeater + Fog Lamp
3 = HighBeam + Park Light + Fog Lamp
4 = Park Light
5 = Turn Lights + Repeater
6 = HighBeam + Park Light
7 = LowBeam + Fog Lamp + Repeater + Turn Lights

Digit 4: (WTTC time)
0 = ca. 10s
1 = ca. 25s
2 = ca. 45s
3 = ca. 55s

Digit 5 (WTTC Activation)
0 = off
1 = on

4 Meaning

Digit 6 (Cornering Lights – Daytime Running Lights)
0 = off
1 = Cornering Lights (Fog Lamp)
2 = Daytime Running Lights (Fog Lamp)
3 = Daytime Running Lights + Cornering Lights (Fog Lamp)

Digit 7 (Chirp)
0 = off
1 = Chirp short on
2 = Chirp long on

Digit 8 (distance pulses ouput)
0 = off
1 = on

4.Functional Description

Lightshow:

Requirements:Ignition on, engine off

Procedure:
Push Brake, FlashToPass and **TurnSwitch Right** at the same time.

Advice:
Best way to do it is: PushBrake and FlashToPass and then add TurnLightLeft.

-> highbeam and turnlight telltales begin to flash

To switch between lightsamples push brake pedal, the speedometer Shows the sample (180km/h = Sample 18)

To switch betwenn the variations use parklightswitch on/off,
Telltales inside the instrument show the variation

Variation 1 (Turn Right Telltale):
lights changing clockwise/anticlockwise

Variation 2 (High Beam Telltale):
lights clockwise

Variation 3 (High Beam Telltale + Turn Right Telltale):
lights anticlockwise

OPC-Scan:

Speedometer and tachometer go to limit and back when activating the ignition

4.Functional Description

Speedlock1:

Car gets automatically locked if faster than 20km/h.Deactivating the ignition unlocks the car again.

Speedlock2:

Car gets automatically locked if faster than 20km/h.

Car needs to be unlocked manually.

WTTC Function:

Exterior lights light up, if car gets locked/unlocked.(see attachment)

Cornering Light

If Lightswitch is set to Low Beam, then the foglamp gets activated if turnswitch is pressed (if slower than 40km/h)

Daytime Running Lights

If Lightswitch is set to “0“ (off) or set to “Auto“ and lightsensorsstatus=Day , then the foglamp gets activated when engine is turned on.

Distance Pulses Ouput (optional)

The HLS is able to generate the distance puls signal, which is need, if the car gets updated with a original Opel/Vauxhall navigation system.

Particel Filter Cleaning:

The Diesel glow plug symbol lights up in the instrument, if the particel filter gets cleaned

5. Legal meaning

The devices has no general type approval,
thus it is not allowed to use it within the laws of road traffic.

By noncompliance the user will be responsible for any loss.

5. Attachment